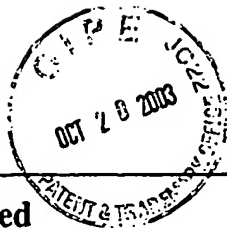




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List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Lex M. Cowsert et al.	
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	AB	Albert et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>TIPS</i> , 1994, 15, 250-254	
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	AF	Baker et al., "Cleavage of the 5' Cap Structure of mRNA by a Europium(III) Macrocyclic Complex with Pendant Alcohol Groups", <i>J. Am. Chem. Soc.</i> , 1997, 119(38), 8749-8755	
	AG	Buhlmann et al., "Therapeutic Potential for Blockade of the CD40 Ligand, gp39", <i>J. Clin. Immunol.</i> , 1996, 16(2), 83-89	
	AH	Chiang et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", <i>J. Biol. Chem.</i> , 1991, 266, 18162-18171	
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	AM	Freier et al., "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes", <i>Nucl. Acids Res.</i> , 1997, 25, 4429-4443	
	AN	Glasser, "ISIS Pharmaceuticals Demonstrates Efficacy in Crohn's Disease with its Antisense Drug", <i>Genetic Engin. News</i> , 1997, 17, 1	
	AO	Gruss et al., "CD40/CD40 Ligand Interactions in Normal, Reactive and Malignant Lympho-Hematopoietic Tissues", <i>Leuk. Lymphoma</i> , 1997, 24, 393-422	
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	AQ	Hyrup, B. et al., "Peptide Nucleic Acids (PNA): Synthesis, Properties and Potential Applications", <i>Bioorg. Med. Chem.</i> , 1996, 4(1), 5-23	
	AR	Janeway, "How the Immune System Recognizes Invaders", <i>Sci. Amer.</i> , 1993, 269, 73-79	
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	AT	Kahn, "From Genome to Proteome: Looking at a Cell's Proteins", <i>Science</i> , 1995, 270, 369-370	
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	AV	Kroschwitz, J.I. (ed.), "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , John Wiley & Sons, 1990, 858-859	
	AW	Letsinger et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989, 86, 6553-6556	
	AX	Lima et al., "Implication of RNA Structure on Antisense Oligonucleotide Hybridization Kinetics", <i>Biochem.</i> , 1992, 31, 12055-12061	
	AY	Makgoba et al., "The CD2-LFA-3 and LFA-1-ICAM pathways: relevance to T-cell recognition", <i>Immunol. Today</i> , 1989, 10(12), 417-422	
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	BA	Manoharan et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides", <i>Ann. N.Y. Acad. Sci.</i> , 1992, 660, 306-309	
	BB	Manoharan et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications", <i>Bioorg. Med. Chem. Letts.</i> , 1993, 3(12), 2765-2770	
	BC	Manoharan et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995, 36(21), 3651-3654	
	BD	Manoharan et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides & Nucleotides</i> , 1995, 14(3-5), 969-973	
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	BF	Mishra et al., "Improved leishmanicidal effect of phosphorotioate antisense oligonucleotides by LDL-mediated delivery", <i>Biochim. Biophys. Acta</i> , 1995, 1264, 229-237	
	BG	Miura et al., "Fluorometric determination of total mRNA with oligo(dT) immobilized on microtiter plates", <i>Clin. Chem.</i> , 1996, 42(11), 1758-1764	
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	BI	Nowak, "Entering the Postgenome Era", <i>Science</i> , 1995, 270, 368-371	
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	BL	Sanghvi, Y.S. et al., "Heterocyclic Base Modifications in Nucleic acids and their Applications in Antisense Oligonucleotides", <i>Antisense Research and Applications</i> , CRC Press, Boca Raton, Chapter 15, 1993, 273-288	
	BM	SantaLucia et al., "Improved Nearest-Neighbor Parameters for Predicting DNA Duplex Stability", <i>Biochem.</i> , 1996, 35, 3555-3562	
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	BO	Serra et al., "Predicting Thermodynamic Properties of RNA", <i>Meth. Enzymol.</i> , 1995, 259, 242-261	
	BP	Sugimoto et al., "Thermodynamic Parameters to Predict Stability of RNA/DNA Hybrid Duplexes", <i>Biochem.</i> , 1995, 34, 11211-11216	
	BQ	Svinarchuk et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993, 79, 49-54	
	BR	Szoka, "Many are probed, but few are chosen", <i>Nature Biotech.</i> , 1997, 15, 509	
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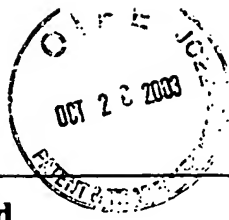
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BS		3,687,808	08/29/72	Merigan	195	28
BT		4,469,863	09/04/84	Ts'o et al.	536	27
BU		4,476,301	10/09/84	Imbach et al.	536	27
BV		4,587,044	05/06/86	Miller et al.	530	211
BW		4,605,735	08/12/86	Miyoshi et al.	536	27
BX		4,667,025	05/19/87	Miyoshi et al.	536	27
BY		4,762,779	08/09/88	Snitman	435	6
BZ		4,789,737	12/06/88	Miyoshi et al.	536	27
CA		4,824,941	04/25/89	Gordon et al.	530	403
CB		4,828,979	05/09/89	Klevan et al.	435	6
CC		4,835,263	05/30/89	Nguyen et al.	536	27
CD		4,845,205	07/04/89	Huynh Dinh et al.	536	28
CE		4,876,335	10/24/89	Yammane et al.	536	27
CF		4,904,582	02/27/90	Tullis	435	6
CG		4,948,882	08/14/90	Ruth	536	27

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CH		WO 86/07363 (claims only included)	12/18/86	PCT	X
CI		WO 94/02499	02/03/94	PCT	X
CJ		WO 94/17093	08/04/94	PCT	X



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OS	CK	4,958,013	09/18/90	Letsinger	536	27
	CL	4,981,957	01/01/91	Lebleu et al.	536	27
	CM	5,013,830	05/07/91	Ohtsuka et al.	536	27
	CN	5,023,243	06/11/91	Tullis	514	44
	CO	5,034,506	07/23/91	Summerton et al.	528	391
	CP	5,082,830	01/21/92	Brakel et al.	514	44
	CQ	5,109,124	04/28/92	Ramachandran et al.	536	27
	CR	5,112,963	05/12/92	Pieles et al.	536	27
	CS	5,118,800	06/02/92	Smith et al.	536	23
	CT	5,118,802	06/02/92	Smith et al.	536	27
	CU	5,130,302	12/24/91	Neustadt	514	211
	CV	5,134,066	07/28/92	Rogers et al.	435	91
	CW	5,138,045	08/11/92	Cook et al.	536	27
	CX	5,149,797	09/22/92	Pederson et al.	536	27
	CY	5,166,315	11/24/92	Summerton et al.	528	406

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Examiner Initial		Document No.	Date	Country	Translation YES NO
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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. 1560085-100	Serial No. 10/649,467
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	DA	5,175,273	12/29/92	Bischofberger et al.	536	27
	DB	5,177,196	01/05/93	Meyer, Jr. et al.	536	22.1
	DC	5,177,198	01/05/93	Spielvogel et al.	536	25.33
	DD	5,185,444	02/09/93	Summerton et al.	544	81
	DE	5,188,897	02/23/93	Suhadolnik et al.	428	402.2
	DF	5,214,134	05/25/93	Weis et al.	536	25.3
	DG	5,214,136	05/25/93	Lin et al.	514	44
	DH	5,216,141	06/01/93	Benner	536	27.13
	DI	5,218,105	06/08/93	Cook et al.	536	25.31
	DJ	5,220,007	06/15/93	Pederson et al.	536	23.1
	DK	5,223,618	06/29/93	Cook et al.	544	276
	DL	5,235,033	08/10/93	Summerton et al.	528	391
	DM	5,245,022	09/14/93	Weis et al.	536	24.5
	DN	5,254,469	10/19/93	Warren, III et al.	435	188
	DO	5,256,775	10/26/93	Froehler	536	25.6

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AS	DP	5,258,506	11/02/93	Urdea et al.	536	23.1
	DQ	5,262,536	11/16/93	Hobbs, Jr.	546	25
	DR	5,264,423	11/23/93	Cohen et al.	514	44
	DS	5,264,562	11/23/93	Matteucci	536	23.1
	DT	5,264,564	11/23/93	Matteucci	536	23.1
	DU	5,272,250	12/21/93	Spielvogel et al.	530	300
	DV	5,276,019	01/04/94	Cohen et al.	514	44
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	DX	5,286,717	02/15/94	Cohen et al.	514	44
	DY	5,292,873	03/08/94	Rokita et al.	536	24.3
	DZ	5,317,098	05/31/94	Shizuya et al.	536	23.1
	EA	5,319,080	06/07/94	Leumann	536	27.1
	EB	5,321,131	06/14/94	Agrawal et al.	536	25.34
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	ED	5,366,878	11/22/94	Pederson et al.	435	91.3

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OS	EE	5,367,066	11/22/94	Urdea et al.	536	24.3
	EF	5,371,241	12/06/94	Brush	549	220
	EG	5,472,672	12/05/95	Brennan	422	131
	EH	5,378,825	01/03/95	Cook et al.	536	25.34
	EI	5,386,023	01/31/95	Sanghvi et al.	536	25.3
	EJ	5,391,723	02/21/95	Priest	536	23.1
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	EL	5,399,676	03/21/95	Froehler	536	23.1
	EM	5,403,711	04/04/95	Walder et al.	435	6
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	ES	5,434,257	08/18/95	Matteucci et al.	536	24.3

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00	ET	5,446,137	08/29/95	Maag et al.	536	23.1
	EU	5,451,463	09/19/95	Nelson et al.	428	402
	EV	5,453,496	09/26/95	Caruthers et al.	536	24.5
	EW	5,455,233	10/03/95	Spielvogel et al.	514	44
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	EY	5,459,255	10/17/95	Cook et al.	536	27.13
	EZ	5,466,677	11/14/95	Baxter et al.	514	44
	FA	5,466,786	11/14/95	Buhr et al.	536	26.26
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	FC	5,472,672	12/05/95	Brennan	422	131
	FD	5,476,925	12/19/95	Letsinger et al.	536	23.1
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AS	FI	5,502,177	03/26/96	Matteucci et al.	536	26.6
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	FK	5,510,475	04/23/96	Agrawal et al.	536	24.3
	FL	5,512,439	04/30/96	Hornes et al.	435	6
	FM	5,512,667	04/30/96	Reed et al.	536	24.31
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	FO	5,519,126	05/21/96	Hecht	536	24.3
	FP	5,519,134	05/21/96	Acevedo et al.	544	243
	FQ	5,523,389	06/04/96	Ecker et al.	536	23.1
	FR	5,525,465	06/11/96	Haralambidis et al.	435	6
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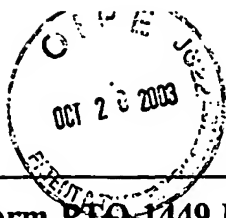
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②	FX	5,541,313	07/30/96	Ruth	536	24.3
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	FZ	5,543,508	08/06/96	Haseloff et al.	536	23.2
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	GC	5,552,538	09/03/96	Urdea et al.	536	24.3
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	GK	5,567,810	10/22/96	Weis et al.	536	25.3
	GL	5,567,811	10/22/96	Misiura et al.	536	25.34
	GM	5,571,799	11/05/96	Tkachuk et al.	514	47
	GN	5,574,142	11/12/96	Meyer, Jr. et al.	536	23.1

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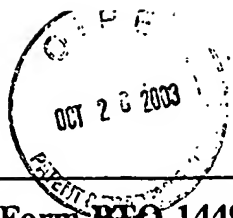
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OS	GO	5,576,427	11/19/96	Cook et al.	536	23.1
	GP	5,578,717	11/26/96	Urdea et al.	536	26.1
	GQ	5,578,718	11/26/96	Cook et al.	536	27.21
	GR	5,580,731	12/03/96	Chang et al.	435	6
	GS	5,585,481	12/17/96	Arnold, Jr. et al.	536	25.33
	GT	5,587,361	12/24/96	Cook et al.	514	44
	GU	5,587,371	12/24/96	Sessler et al.	514	185
	GV	5,587,469	12/24/96	Cook et al.	536	23.1
	GW	5,591,584	01/07/97	Chang et al.	435	6
	GX	5,591,722	01/07/97	Montgomery et al.	514	45
	GY	5,594,121	01/14/97	Froehler et al.	536	23.5
	GZ	5,595,726	01/21/97	Magda et al.	424	9.61
	HA	5,596,086	01/21/97	Matteucci et al.	536	22.1
	HB	5,596,091	01/21/97	Switzer	536	24.5
	HC	5,597,696	01/28/97	Linn et al.	435	6

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Examiner Initial		Document No.	Date	Country	Translation YES NO

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List of Patent and Publications
Cited by Applicant
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U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS0085-100

Serial No.
10/649,467

Applicant
Lex M. Cowsert

Filing Date
August 27, 2003

Group
Not Yet Assigned

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Examiner Initial		Document No.	Date	Name	Class	Subclass
OS	HD	5,597,909	01/28/97	Urdea et al.	536	24.3
	HE	5,599,923	02/04/97	Sessler et al.	540	145
	HF	5,599,928	02/04/97	Hemmi et al.	540	474
	HG	5,602,240	02/11/97	De Mesmaeker et al.	536	23.1
	HH	5,608,046	03/04/97	Cook et al.	536	23.1
	HI	5,610,289	03/11/97	Cook et al.	536	25.34
	HJ	5,610,300	03/11/97	Altmann et al.	544	244
	HK	5,614,617	03/25/97	Cook et al.	536	23.1
	HL	5,618,704	04/08/97	Sanghvi et al.	435	91.5
	HM	5,623,065	04/22/97	Cook et al.	536	23.1
	HN	5,623,070	04/22/97	Cook et al.	536	27.6
	HO	5,625,050	04/29/97	Beaton et al.	536	24.1
	HP	5,627,053	05/06/97	Usman et al.	435	91.1
	HQ	5,633,360	05/27/97	Bischofberger et al.	536	22.1
	HR	5,639,873	06/17/97	Barascut et al.	536	25.3

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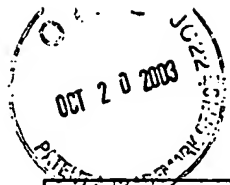
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OS	HS	5,646,265	07/08/97	McGee	536	25.34
	HT	5,652,355	07/29/97	Meteliev et al.	536	24.5
	HU	5,652,356	07/29/97	Agrawal	536	24.5
	HV	5,658,873	08/19/97	Bertsch-Frank et al.	510	375
	HW	5,663,312	09/02/97	Chaturvedula	536	22.1
	HX	5,670,633	09/23/97	Cook et al.	536	23.1
	HY	5,677,437	10/14/97	Teng et al.	536	23.1
	HZ	5,677,439	10/14/97	Weis et al.	536	23.1
	IA	5,681,941	10/28/97	Cook et al.	536	23.1
	IB	5,688,941	11/18/97	Cook et al.	536	25.3
	IC	5,693,463	12/02/97	Edwards et al.	435	6
	ID	5,696,248	12/09/97	Peyman et al.	536	22.1
	IE	5,700,920	12/23/97	Altmann et al.	536	221
	IF	5,700,922	12/23/97	Cook	536	23.1
	IG	5,708,158	01/13/98	Hoey	536	23.5

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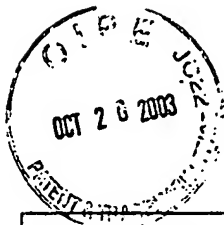
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	II	5,716,780	02/10/98	Edwards et al.	435	6
	IJ	5,719,262	02/17/98	Buchardt et al.	530	300
*	IK	08/465,880	06/06/95	Cook		
*	IL	08/468,037	06/06/95	Cook et al.		
*	IM	08/762,488	12/01/96	Cook et al.		


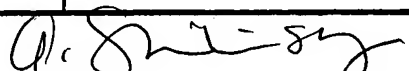
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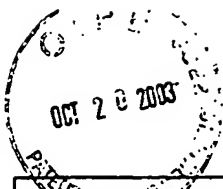
Examiner Initial		Document No.	Date	Country	Translation YES NO

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*Pursuant to 37 C.F.R. 1.97(a)(2)(iii), no copy of a U.S. patent application need be included with an Information Disclosure Statement filed under 37 C.F.R. 1.97.



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	IN	Ghosh, M.K. et al., "Evaluation of some properties of a phosphorodithioate oligodeoxyribonucleotide for antisense application," <i>Nucl. Acid Res.</i> , 1993, 21(24), 5761-5766	
	IO	Mirabelli, C.K. et al., "In vitro and in vivo pharmacologic activities of antisense oligonucleotides," <i>Anti-Cancer Drug Des.</i> , 1991, 6, 647-661	
	IP	Uhlmann, E. et al., "Antisense Oligonucleotides: A New Therapeutic Principle," <i>Chem. Reviews</i> , 1990, 90(4), 544-584	
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OS	AD	4,806,463	02/21/89	Goodchild et al.	435	5
	AD	5,436,327	07/25/95	Southern et al.	536	25.34
	IS	5,612,455	03/18/97	Hoey	530	350
	IT	5,700,637	12/23/97	Southern	435	6
	IU	5,824,485	10/20/98	Thompson et al.	435	6

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Examiner Initial		Document No.	Date	Country	Translation YES NO
OS	AI	WO 89/10977	11/16/89	PCT	X

EXAMINER*A. Smith***DATE CONSIDERED***3/24/06*



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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
Q	IV	5,697,248	12/16/97	Brown et al.	73	290	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
EXAMINER <i>O. J. L. S.</i>				DATE CONSIDERED <i>3/24/06</i>			



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AS	IW	5,696,248	12/09/97	Peyman et al.	536	22.1

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EXAMINER

A. Shinsky

DATE CONSIDERED

3/24/06

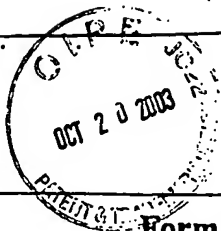


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AS	IX	5,463,564	10/31/95	Agrafiotis, et al.	364	496	
	IY	5,639,603	06/17/97	Dower, et al.	435	6	
	IZ	5,650,122	07/22/97	Harris, et al.	422	81	
	JA	5,684,711	11/04/97	Agrafiotis, et al.	364	500	
	JB	5,720,923	07/22/97	Harris, et al.,	422	68.1	
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Examiner Initial		Document No.	Date	Country	Translation		
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* AS	JC	WO 93/04204	03/04/93	PCT			
*	JD	WO 98/03533	01/29/98	PCT			
	JE	WO 98/37242	08/27/98	PCT			
	JF	0 514 927	11/1992	EPO			
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* Cited on the EPO Supplemental Partial European Search Report dated March 28, 2003.

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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
OS	JG	5,697,248	12/16/97	Brown et al.	73	290	
	JH	4,806,463	02/21/89	Goodchild et al.	435	5	
	JJ	5,436,327	07/25/95	Southern et al.	536	25.34	
	JK	5,612,455	03/18/97	Hoey	530	350	
	JL	5,700,637	12/23/97	Southern	435	6	
	JM	5,824,485	10/20/98	Thompson et al.	435	6	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation		
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as	JN	Cooper, H.D., et al., "Software of determine optimal oligonucleotide sequences based on hybridization simulation data, <i>Biotechniques</i> , June 1996, 20(6), 1096-1097 (Abstract only)	
	JO	DeCamp, D., et al., "Site-directed drug design," <i>Protein Engineering, Principles and Practice</i> , Cleland, J.L., et al. (Ed.), 1996, Chapter 17, 467-472	
	JP	Genome Analysis - A Laboratory Manual, "Analyzing DNA," 1997, Vol. 1, 574-578	
	JQ	Lomakin, A., et al., "A theoretical analysis of specificity of nucleic acid interactions with oligonucleotides and peptide nucleic acids (PNAs)," <i>J. Molecular Biology</i> , February 13, 1998, 276(1), 1-24	
	JR	Parzel, V., et al., "Theoretical design of antisense RNA structures substantially improves annealing kinetics and efficacy in human cells," <i>Nat. Biotechnol.</i> , January 1998, 16(1), 24 (Abstract only)	
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		DATE CONSIDERED 3/24/96	



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		Filing Date August 27, 2003	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
as	JS	Development of Medicine, 1998, 184(3), 225-231 (No English translation is available)	
EXAMINER		a. Smith	
		DATE CONSIDERED 3/24/06	